PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 28578WOP00	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/yea	ar) Priority date (day/month/year)		
PCT/AU2004/001292	22 September 2004	22 September 2003		
International Patent Classification (IPC) or	national classification and IPC			
Int. Cl. 7 B01D 65/02				
Applicant U.S FILTER WASTEWATER G	GROUP, INC. et al			
	ary examination report, established by thited to the applicant according to Article 3			
2. This REPORT consists of a total of 3 sheets, including this cover sheet.				
3. This report is also accompanied by ANN	NEXES, comprising:			
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:				
	tions authorized by this Authority (see R	amended and are the basis for this report and/or ule 70.16 and Section 607 of the		
sheets which supersede ear the disclosure in the intern Box.	rlier sheets, but which this Authority con ational application as filed, as indicated i	siders contain an amendment that goes beyond in item 4 of Box No. I and the Supplemental		
a sequence listing and/or table re	u only) a total of (indicate type and numbelated thereto, in computer readable former Section 802 of the Administrative Inst	only, as indicated in the Supplemental Box		
4. This report contains indications relating to the following items:				
X Box No. I Basis of the report				
Box No. II Priority	o. II Priority			
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of in				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents	Certain documents cited			
Box No. VII Certain defects in	Box No. VII Certain defects in the international application			
Box No. VIII Certain observations on the international application				
Date of submission of the demand Date of completion of the report				
27 June 2005		28 October 2005		
Name and mailing address of the IPEA/AU	Authorized Officer	Authorized Officer		
AUSTRALIAN PATENT OFFICE				
PO BOX 200, WODEN ACT 2606, AUSTRAL: E-mail address: pct@ipaustralia.gov.au	MATTHEW F	MATTHEW FRANCIS		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001292

Box No. I Basis of the report				
1. With regard to the language, this report is based on the international application in the language in which it was file otherwise indicated under this item.	d, unless			
This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:				
international search (under Rules 12.3 and 23.1 (b))				
publication of the international application (under Rule 12.4)	-			
international preliminary examination (under Rules 55.2 and/or 55.3)				
2. With regard to the elements of the international application, this report is based on (replacement sheets which have furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "origin filed" and are not annexed to this report): X the international application as originally filed/furnished	been nally			
the description:				
pages as originally filed/furnished	•			
pages* received by this Authority on with the letter of pages* received by this Authority on with the letter of	,			
the claims:				
pages as originally filed/furnished				
pages* as amended (together with any statement) under Article 19				
pages* received by this Authority on with the letter of				
pages* received by this Authority on with the letter of				
the drawings:				
pages as originally filed/furnished				
pages* received by this Authority on with the letter of				
pages* received by this Authority on with the letter of				
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3. The amendments have resulted in the cancellation of:				
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Bo 70.2(c)).				
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
If item 4 applies, some or all of those sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001292

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement	·	
	Claims 1-13	YES
	Claims	NO
Inventive step (IS)	Claims 1-13	···YES
•	Claims	NO
Industrial applicability (IA)	Claims 1-13	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

D1: WO 1993/002779

D2: US 4676539

D3: GB 2120952

'D4: JP 10028845 D5: JP 60019002

NOVELTY (N), INVENTIVE STEP (IS)

Claims 1-13: The cited art, particularly D1, disclose methods of filtration and associated apparatus that use back flushing with gas to maintain the membranes. The cited art discloses this with gas pressures above the bubble point of the systems involved. There is further disclosure of gas scouring of the membranes. However, there is no disclosure or suggestion of operation below the bubble point of the gas nor of concurrent draining from the lumens during the backwash. Hence these claims are considered both novel and inventive.